

ABSTRACT

A recording medium having content stream data recorded thereon and a recording and reproducing apparatus provided thereof. On the recording medium, content stream data is recorded as a Stream Object (SOB) formed with at least one Stream Object Unit (SOBU), each of which has a predetermined size and one or more stream packs. Each of the stream packs has an Application Time Stamp (ATS) indicating reproducing time information and an application packet in which content stream data is packed therein. Each of the SOBUs, excluding a last one of the SOBUs and SOBUs having stuffing packets, includes at least two entire ATSs. Thus, an incremental application packet arrival time (IAPAT) of each of the SOBUs can be correctly obtained, and program searching referring to a mapping list is smoothly performed without error.